

Principles Of Animal Physiology 2nd Edition

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completely updated from the successful first edition this book provides a timely update on the recent progress in our knowledge of all aspects of plant perception signalling and adaptation to a variety of environmental stresses it covers in detail areas such as drought salinity waterlogging oxidative stress pathogens and extremes of temperature and ph this second edition presents detailed and up to date research on plant responses to a wide range of stresses includes new full colour figures to help illustrate the principles outlined in the text is written in a clear and accessible format with descriptive abstracts for each chapter written by an international team of experts this book provides researchers with a better understanding of the major physiological and molecular mechanisms facilitating plant tolerance to adverse environmental factors this new edition of plant stress physiology is an essential resource for researchers and students of ecology plant biology agriculture agronomy and plant breeding

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cardiovascular diseases pose an enormous clinical challenge remaining the most common cause of death in the world. β adrenoceptors play an important role on cardiac vascular and/or endothelial function at a cellular level with relevant applications in several cardiovascular diseases such as heart failure and hypertension. β protein coupled receptors (GPCRs) including β adrenergic receptors constitute the most ubiquitous superfamily of plasma membrane receptors and represent the single most important type of therapeutic drug target. Sympathetic nervous system hyperactivity which characterizes several cardiovascular diseases such as heart failure and hypertension as well as physiological ageing has been proved to exert in the long term detrimental effects in a wide range of cardiovascular diseases. Acutely, sympathetic hyperactivity represents the response to an insult to the myocardium aiming to compensate for decreased cardiac output. This process involves the activation of beta adrenergic receptors by catecholamine with consequent heart rate and cardiac contractility increase. However, long term exposure of the heart to elevated norepinephrine and epinephrine levels originating from sympathetic nerve endings and chromaffin cells of the adrenal gland results in further progressive deterioration in cardiac structure and function at the molecular level. Sustained sympathetic nervous system hyperactivity is responsible for several alterations including altered beta adrenergic receptor signaling and function, down regulation, desensitization. Moreover, the detrimental effects of catecholamine affect also the function of different cell types including but not limited to endothelial cells, fibroblasts, and smooth muscle cells. Thus, the success of beta-blocker therapy is due at least in part to the protection of the heart and the vasculature from the noxious effects of augmented catecholamine levels. The research topic aimed to support the progress towards understanding the role of sympathetic nervous system under physiological conditions and the contribution of its hyperactivity in the pathogenesis and progression of cardiovascular diseases.

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This text provides a thorough resource on arterial blood gases covering the full scope of applications. This book is the first of its kind to focus on the needs of educators, students, and practitioners alike. The new edition has been completely updated, providing the latest information from the field including facts on technical issues, basic physiology, clinical oxygenation, clinical acid-base, non-invasive techniques, just to name a few. Instructor resources are available; please contact your Elsevier sales representative for details. This book's amazing content coverage offers a wealth of useful material including illustrations, tables, examples, and case studies. This new edition is up to date with the latest in technology and information, ensuring the most current information is available. New figures and tables enhance the understanding of chapter material. The addition of an NBRC National Board of Respiratory Care challenge at the end of each chapter helps readers learn, understand, and put the information together to master the subject. The incorporation of two new on-call cases per chapter provides further opportunity to practice clinical application of content learned as well as helping readers utilize their critical thinking skills. Reorganized and improved table of contents presents the material in a more logical, efficient manner.

The go-to guide for managing endocrine problems in children, completely updated for today's practice. Part of the Pediatric Practice Series, Pediatric Practice: Endocrinology is an outstanding clinical analysis and decision-making tool for those treating endocrine problems in children. Featuring an innovative problem-oriented approach, this well-illustrated full-color guide skillfully integrates pathophysiology with clinical management. Numerous figures illustrate the principles of normal and abnormal physiology and treatment rationale and effects. Since an understanding of the clinical manifestations and treatments of endocrine disorders begins with knowledge of concepts of hormone action and principles of feedback control, the first

chapter general concepts and physiology links genetics cell biology and physiology with pathophysiology to provide a clear and approachable overview of endocrine systems subsequent chapters discuss disorders of growth puberty thyroid and adrenal glands sex development calcium and bone metabolism water homeostasis and carbohydrate metabolism and its comorbidities in this second edition contributing authors have updated all chapters important additions include sections on genetics for the endocrinologist in the general concepts chapter an overview of the physiology and treatment of metabolic syndrome and dyslipidemia in the obesity chapter and the addition of a new chapter on enteric hormones features of the pediatric practice series the pediatric practice series simplifies the care of pediatric patients by delivering tips that tell you what you must know and what you must do at every stage of care diagnostic and treatment algorithms signs symptoms and differential diagnosis boxes when to refer boxes which examine all the relevant clinical considerations diagnostic tests with a realistic emphasis on the right tests to order medical treatment coverage that includes drugs dosages and administration in an easy to read tabular format convenient icons and a consistent chapter design numerous clinical color photos and didactic diagrams

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